QC ABSTRACT

NAME OF WORK: Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	AE-1 KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	9	4	4
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.75	4	4
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set /1-5 cum	4.05	2	2
9	Designer Tiles	Water Absorption	One Test		1	1
		Wet Transverse Strength	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-05-18-10 **Date: 17-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri H,V Onkarappa, No 02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-03-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	20-03-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-05-18-10** **Date: 22-03-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H,V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	19-03-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	19-03-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	187	187	1.2	98.8	90-100
3	20 mm	7276	7463	49.8	50.2	30-70
4	10 mm	4074	11537	76.9	23.1	10-35
5	4.75 mm	3000	14537	96.9	3.1	0-5
6	Pan	463	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-05-18-10 **Date: 22-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-05-18-10** **Date: 22-03-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-05-18-10

Date: 22-03-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 03-04-21

Lab ID	:	**CP-2021-05-18-10**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H,V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-03-21
Sample Type /Size	:	CC Kerb Stone/ 450*150*500mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	30/03/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	150.51	2.664	7854	132.1	16.8	16.8	21.0
2	B	100.03	150.49	2.693	7857	135.2	17.2	17.2	21.5
3	C	100.01	150.50	2.615	7854	135.1	17.2	17.2	21.5

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Certificate No.: TC-5548

CEMENT CONCRETE FLOORING TILES

Lab ID	:	**CP-2021-05-18-10** **Date: 08-04-21**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in
Agency	:	Sri H.V. Onkarappa, No.02, Taralabalu Enclave, Near Police Station, Yelahan'.a, Bangalore-560064
Customer Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-04-21
Sample Type	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237 2012
Date of test	:	03-04-21

1. Water Absorption

SLNo.	Measured Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	399	25.09	2.530	2.21	The average percentage of water absorption shall not exceed 10.
2	401	401	25.05	1.970		
3	400	401	25.11	2.170		
4	400	399	25.06	2.060		
5	399	400	25.17	1.800		
6	400	400	25.13	2.760		

2.Wet Transverse Strength

SLNo.	Measured Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	401	401	25.02	7.83	7.8	The average wet transverse strength shall not be less than $3N/mm^2$.
2	401	401	25.04	8.16		
3	400	399	25.06	7.51		
4	399	401	25.01	7.88		
5	400	400	25.05	8.25		
6	401	399	25.03	7.29		

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-05-18-10** **Date: 24/04/2021**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H,V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	27/03/2021	24/04/2021	151.85 X 149.04 X 151.60	22631	8.227	401.6	17.7	17.5
2	PCC	M15	27/03/2021	24/04/2021	151.98 X 149.21 X 150.69	22678	8.207	393.2	17.3	
3	PCC	M15	27/03/2021	24/04/2021	150.39 X 151.85 X 151.46	22836	8.462	398.7	17.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/04/2021

Lab ID	:	CP-2021-05-18-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H,V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	27/03/2021	03/04/2021	150.95 X 149.98 X 151.06	22639	8.699	292.3	12.9	12.5
2	PCC	M15	27/03/2021	03/04/2021	151.42 X 151.32 X 150.02	22913	8.566	275.2	12.0	
3	PCC	M15	27/03/2021	03/04/2021	149.06 X 151.21 X 150.27	22540	8.053	280.7	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/04/2021

Lab ID	:	CP-2021-05-18-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H,V. Onkarappa, No.02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-21
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	27/03/2021	24/04/2021	150.39 X 149.14 X 151.81	22430	8.227	392.3	17.5	17.4
2	PCC	M15	27/03/2021	24/04/2021	151.80 X 149.69 X 150.62	22723	8.207	389.6	17.1	
3	PCC	M15	27/03/2021	24/04/2021	150.52 X 151.22 X 149.95	22762	8.462	398.1	17.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/04/2021

Lab ID	:	CP-2021-05-18-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Governament School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri H.V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-21
Customer ID	:	Mass Concrete For Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Mass Concrete For Fixing Equipments	M15	10/04/2021	17/04/2021	149.64 X 151.95 X 151.05	22738	8.699	280.0	12.3	12.5
2	Mass Concrete For Fixing Equipments	M15	10/04/2021	17/04/2021	149.54 X 150.05 X 149.06	22438	8.566	291.2	13.0	
3	Mass Concrete For Fixing Equipments	M15	10/04/2021	17/04/2021	149.83 X 151.05 X 151.36	22633	8.053	278.9	12.3	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or
Samples will be disposed after 30 days from the date of issue of test certifi

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/05/2021

Lab ID	:	CP-2021-05-18-10
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Providing Street Name Board, Fabrication of Shed for Boating Flatform and Construction of Rangamandhira at Venkatala Government School in Ward No-01 of Yelahanka Sub Division
Agency	:	Sri.H.V. Onkarappa, No:02, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-9/W.O/259/2020-21
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-04-21
Customer ID	:	Mass Concrete For Fixing Equipments
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	17/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Mass Concrete For Fixing Equipments	M15	19/04/2021	17/05/2021	149.53 X 149.49 X 150.12	22353	8.227	389.1	17.4	17.5
2	Mass Concrete For Fixing Equipments	M15	19/04/2021	17/05/2021	151.99 X 151.08 X 149.00	22962	8.207	405.7	17.7	
3	Mass Concrete For Fixing Equipments	M15	19/04/2021	17/05/2021	149.46 X 151.14 X 149.82	22589	8.462	394.3	17.5	

AE-1

The Results Obtained are Satisfactory as per Standard Requirements

Note:
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R KARTHIK RECHAN
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****End of Report****

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